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April 24, 2002

via Express Mail

Assistant Commissioner for Patents
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Name: Elie H. Gendloff

Signature:

Re: U.S. Patent Application Serial No. 10/038,760 - Small Entity Status
Title: INHIBITORS OF ADP-RIBOSE TRANSFERASES, CYCLASES, AND HYDROLASES, AND USES THEREOF
Inventor: Anthony A. Sauvé and Vern L. Schramm
Our File: 96700/725

Sir:

Enclosed please find the following documents for filing with the above-identified application in the names of Anthony A. Sauvé and Vern L. Schramm, entitled INHIBITORS OF ADP-RIBOSE TRANSFERASES, CYCLASES, AND HYDROLASES, AND USES THEREOF:

1. an Information Disclosure Statement By Applicant Form PTO/SB/08A with twenty-five (25) references attached; and
2. a Return receipt postcard.

Please acknowledge receipt of the enclosed documents by stamping the enclosed postcard and returning same.

Respectfully submitted,

AMSTER, ROTHSTEIN & EBENSTEIN
Attorneys for Applicants
90 Park Avenue
New York, New York 10016
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Dated: New York, New York
April 24, 2002

By:
Elie H. Gendloff
Registration No. 44,704

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PTO/SB/084 (08-00)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

4

Complete if Known

Application Number	10/038,760
Filing Date	January 4, 2002
First Named Inventor	Anthony A. Sauvé
Group Art Unit	1614
Examiner Name	to be assigned
Attorney Docket Number	96700/725

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner
Signature

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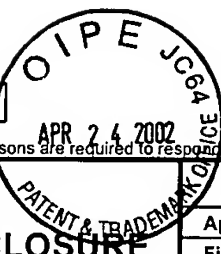
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

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Application Number	10/038,760
Filing Date	January 4, 2002
First Named Inventor	Anthony A. Sauvé
Group Art Unit	1614
Examiner Name	to be assigned
Attorney Docket Number	96700/725

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	MEHTA, et al., The FASEB Journal, 10:1408-17, October 1996, "Human CD38, a cell-surface protein with multiple functions"	
	2	LEE, et al., J. Biol. Chem., 264:1608-15, January 1989, "Structural Determination of a Cyclic Metabolite of NAD ⁺ with Intracellular Ca ²⁺ -mobilizing Activity"	
	3	PRASAD, et al., Nat. Struct. Biol., 3:957-64, November 1996, "Crystal structure of Aplysia ADP ribosyl cyclase, a homologue of the bifunctional ectozyme CD38"	
	4	LEE, et al., Nature Struct. Biol., 1:143-44, March 1994, "The crystal structure of cyclic ADP-ribose"	
	5	REYES-HARDE, et al., Proc. Natl. Acad. Sci. USA, 96:4061-66, March 1999, "Evidence of a role for cyclic ADP-ribose in long-term synaptic depression in hippocampus"	
	6	GALIONE, et al., Science, 253:1143-46, September 1991, "Ca ²⁺ -Induced Ca ²⁺ Release in Sea Urchin Egg Homogenates: Modulation by Cyclic ADP-Ribose"	
	7	OKAMOTO H., Mol. Cell. Biochem., 193:115-18, March 1999, "The CD38-cyclic ADP-ribose signaling system in insulin secretion"	
	8	COCKAYNE, et al., Blood, 92:1324-33, August 1998, "Mice Deficient for the Ecto-Nicotinamide Adenine Dinucleotide Glycohydrolase CD38 Exhibit Altered Humoral Immune Responses"	
	9	SAUVÉ, et al., Biochemistry, 37:13239-49, September 1998, "The Reaction Mechanism for CD38. A Single Intermediate Is Responsible for Cyclization, Hydrolysis, and Base-Exchange Chemistries"	
	10	SAUVÉ, et al., J. Am. Chem Soc., 122:7855-59, August 2000, "A Covalent intermediate in CD38 Is Responsible for ADP-Ribosylation and Cyclization Reactions"	
	11	MULLER-STEFFNER, et al., J. Biol. Chem., 271:23967-72, September 1996, "Mechanism of Cyclization of Pyridine Nucleotides by Bovine Spleen NAD ⁺ Glycohydrolase"	

Examiner Signature

Date Considered

7/31/03
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Sheet 3 of 4

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Application Number	10/038,760
Filing Date	January 4, 2002
First Named Inventor	Anthony A. Sauvé
Group Art Unit	1614
Examiner Name	to be assigned
Attorney Docket Number	96700/725

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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<i>JS</i>	12	BERTHELIER, et al., Biochem. J., 330:1383-90, March 1998, "Human CD38 is an authentic NAD(P)+ glycohydrolase"	
	13	KIM, et al., Science, 261:1330-33, September 1993, "Synthesis and Degradation of Cyclic ADP-Ribose by NAD Glycohydrolases"	
	14	NIEDBALLA and VORBRÜGGEN, J. Org. Chem., 39:3654-60, December 1974, "A General Synthesis of N-Glycosides. I.1 Synthesis of Pyrimidine Nucleosides"	
	15	MORRISON and WALSH, Adv. Enzymol. Relat. Areas Mol. Biol., 61:201-301, 1988, "The Behavior and Significance of Slow-Binding Enzyme Inhibitors"	
	16	PORTER, et al., J. Biol. Chem., 270:15551-56, June 1995, "Identification of the Active Site Nucleophile in Nucleoside 2-Deoxyribosyltransferase as Glutamic Acid 98"	
	17	ZECHEL and WITHERS, Acc. Chem Res., 33:11-18, 2000, "Glycosidase Mechanisms: Anatomy of a Finely Tuned Catalyst"	
	18	WONG, et al., J. Biol. Chem., 273:34057-62, December 1998, "Identification of Glu-540 as the Catalytic Nucleophile of Human beta-Glucuronidase Using Electrospray Mass Spectrometry"	
	19	WITHERS and STREET, J. Am. Chem. Soc., 110:8551-53, December 1988, "Identification of a Covalent alpha-D-Glucopyranosyl Enzyme Intermediate Formed on a beta-Glucosidase"	
	20	MULLER-STEFFNER, et al., J. Biol. Chem., 267:9606-11, May 1992, "Slow-binding Inhibition of NAD+ Glycohydrolase by Arabino Analogues of beta-NAD+"	
	21	BERTHELIER, et al., Eur. J. Biochem., 267(10):3056-64, May 2000, "Probing ligand-induced conformational changes of human CD38"	
<i>JS</i>	22	MERKLER, et al., Biochemistry, 29:8358-64, September 1990, "The Rate Constant Describing Slow-Onset Inhibition of Yeast AMP Deaminase by Coformycin Analogues Is Independent of inhibitor Structure"	

Examiner Signature

[Signature] 7/31/03

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				Filing Date	January 4, 2002
				First Named Inventor	Anthony A. Sauvé
				Group Art Unit	1614
				Examiner Name	to be assigned
				Attorney Docket Number	96700/725
Sheet	4	of	4		

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